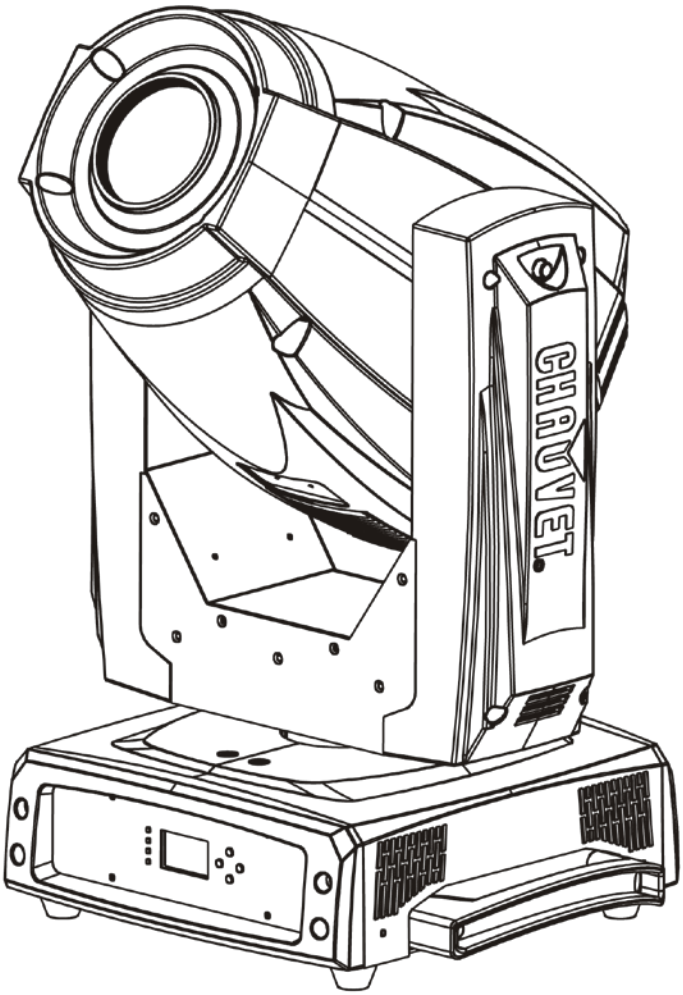
Legend™ 330SR SPOT

User Manual



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Edition Notes

The Legend™ 330SR Spot User Manual Rev. 2 covers the description, safety precautions, installation, programming, operation, and maintenance of the Legend™ 330SR Spot. CHAUVET® released this edition of the Legend™ 330SR Spot User Manual in July 2014.

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Document Printing

For better results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure your printer to scale the content accordingly.

Intended Audience

Any person in charge of installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

Disclaimer

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Document Revision

The Legend™ 330SR Spot User Manual Rev. 2 supersedes all previous versions of this manual. Discard any older versions of this manual and replace with this version. Go to www.chauvetprofessional.com for the latest version.

Author	Date	Editor	Date
D. Couppe	7/16/14	A. Leon	7/16/14

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1. BEFORE YOU BEGIN

What Is Included

- Legend™ 330SR Spot
- Neutrik® powerCON® power cord
- 2 Omega brackets with mounting hardware
- Warranty Card
- Quick Reference Guide

Claims

Carefully unpack the product immediately and check the box to make sure all the parts are in the package and are in good condition.
If the box or the contents (the product and included accessories) appear damaged from shipping or show signs of mishandling, notify the carrier immediately, not CHAUVET®. Failure to report damage to the carrier immediately may invalidate your claim. In addition, keep the box and contents for inspection.
For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with CHAUVET® within 7 days of delivery.

Manual Conventions

Convention	Meaning
1–512	A range of values in the text
50/60	A set of mutually exclusive values in the text
<SET>	A button on the product's control panel
Settings	A product function or a menu option
MENU>Settings	A sequence of menu options
1–10	A range of menu values from which to choose in a menu
Yes/No	A set of two mutually exclusive menu options in a menu
ON	A unique value to be entered or selected in a menu

Symbols

Symbols	Meaning
	Critical installation, configuration, or operation information. Failure to comply with this information may cause the product not to work, damage third-party equipment, or cause harm to the operator.
	Important installation or configuration information. Failure to comply with this information may keep the product from working.
	Useful information.

The term "DMX" used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.

Product At A Glance

Use on Dimmer	X	Auto Programs	X
Outdoor Use	X	Auto-Ranging Power Supply	P
Sound-Activated	X	Replaceable Fuse	P
DMX	P	User-Serviceable	X
Master/Slave	X		

Safety Notes

Read all the following Safety Notes before working with this product. These notes include important information about the installation, usage, and maintenance of this product.

This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained CHAUVET® certified technicians. Do not open the housing or attempt any repairs.

All applicable local codes and regulations apply to proper installation of this product.

Personal Safety

- Avoid direct eye exposure to the light source while the product is on.
- Always disconnect this product from its power source before servicing.
- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- Do not touch this product's housing during operation because it may be very hot.

Mounting And Rigging

- This product is for indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture. (IP20)
- Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- This product weighs 47 lb (21.3 kg). Always ask for help when mounting this product to avoid personal injuries or damage to the product.
- Make sure there are no flammable materials close to this product while it is operating.
- Always carry this product by the handles. Do not carry from the head.
- When hanging this product, always secure to a fastening device using a safety cable.

Power And Wiring

- Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- Never connect this product to a dimmer pack or rheostat.
- Never disconnect this product by pulling or tugging on the power cable.

Operation

- Do not operate this product if you see damage to the housing, lenses, ultraviolet filter, or cables. Have the damaged parts replaced by an authorized technician at once.
- Do not cover the ventilation slots when operating to avoid internal overheating.
- Do not aim this product toward the Sun. The lenses could concentrate the solar energy and cause internal overheating.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at a higher temperature.
- In case of a serious operating problem, stop using this product immediately!

In the unlikely event that your CHAUVET® product may require service, contact CHAUVET® Technical Support.

2. INTRODUCTION

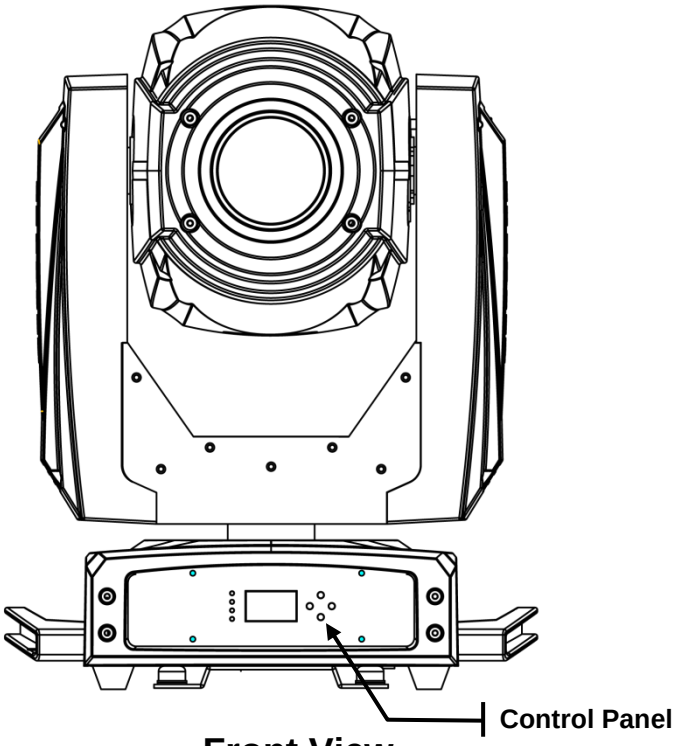
Description

The Legend™ 330SR Spot is a compact, electronic, moving yoke beam product equipped with a 330 watt X8 lamp. It includes a color wheel with 7 colors plus white. It also includes a rotating 3-facet prism, frost, remote focus, and 2 gobo wheels for gobo morphing.

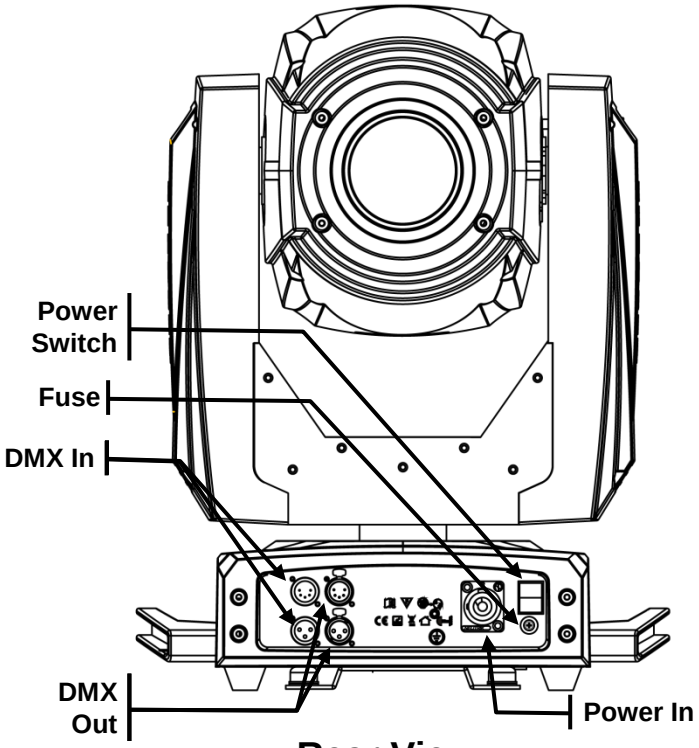
Features

- Compact moving yoke spot fixture with zoom optics and motorized focus
- Virtually silent operation for use in any situation
- Precision optics for crisp, even gobo projections
- Variable frost for wash-style effects
- 3-facet rotating prism with zoom for stunning effects
- Fast, precise pan and tilt movement
- Color wheel:
  - 7 colors + Open (white)
  - CTO - Split/linear colors
  - Rainbow color spin at variable speed
- Gobo wheel 1:
  - 8 gobos (4 metal + 4 glass) + Open
  - Rotating, interchangeable, indexing, slot-n-lock
  - Gobo wheel spin at variable speed
- Gobo wheel 2:
  - 14 gobos + Open
  - Gobo wheel spin at variable speed
- 3-facet rotating prism
- CMY color mixing system with vector speed adjustments
- DMX channels: 21 or 27
- Pan: 540°
- Tilt: 270°
- Reset over DMX
- Electronic power supply
- Mechanical dimmer
- Neutrik® powerCON® power input
- 3- and 5-pin DMX input and output connectors

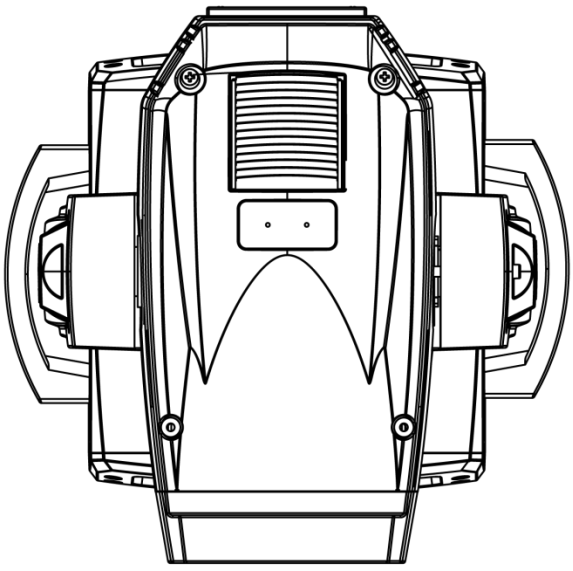
Overview



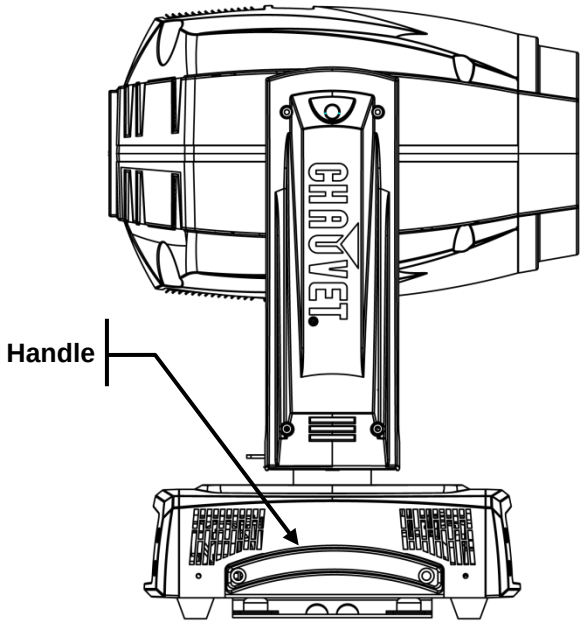
Front View



Rear View

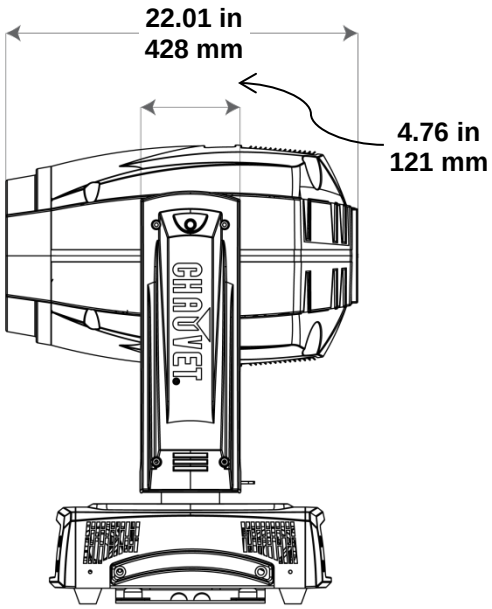


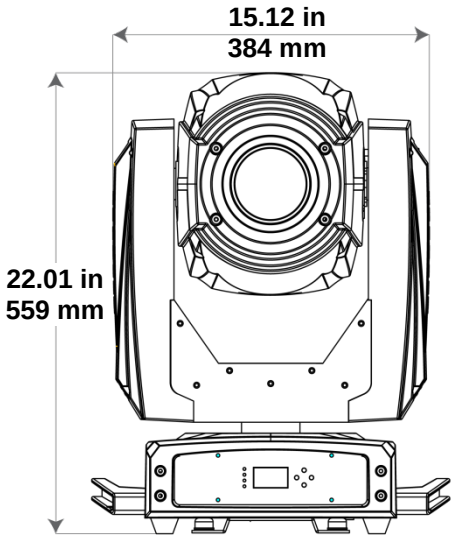
Top View

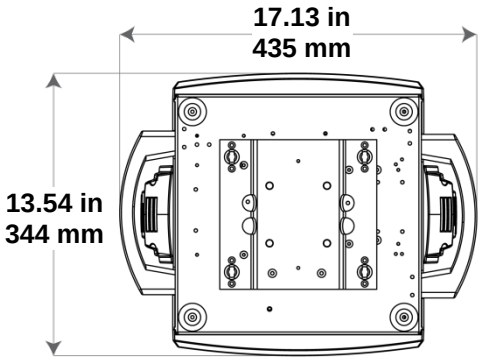


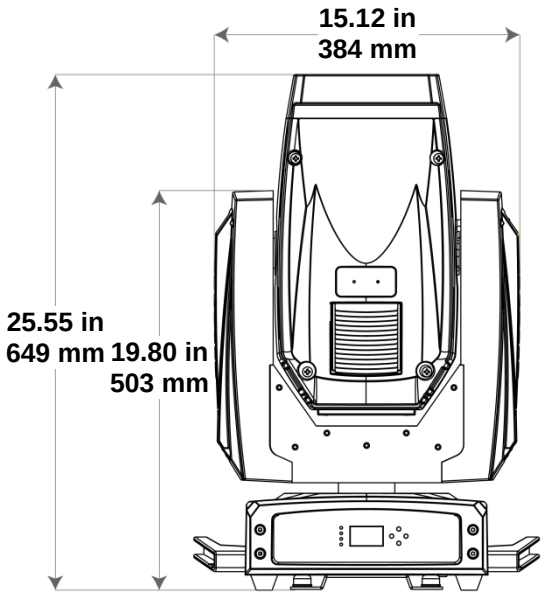
Side View

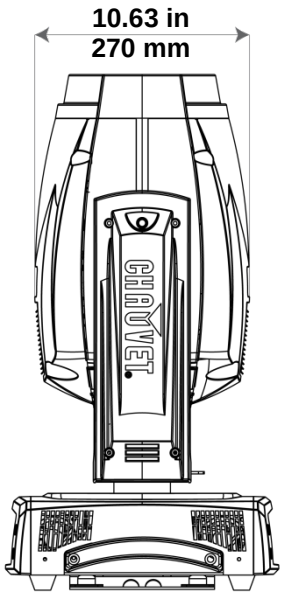
Dimensions


22.01 in
428 mm
4.76 in
121 mm


15.12 in
384 mm
22.01 in
559 mm


17.13 in
435 mm
13.54 in
344 mm


15.12 in
384 mm
25.55 in
649 mm
19.80 in
503 mm


10.63 in
270 mm

3. SETUP

AC Power

Each Legend™ 330SR Spot has an auto-ranging power supply that works with an input voltage range of 100 to 240 VAC, 50/60 Hz. To determine the power requirements for each Legend™ 330SR Spot, refer to the label affixed to the product. You can also refer to the Technical Specifications chart in this manual.
The listed current rating indicates the maximum current draw during normal operation. For more information, you may download Sizing Circuit Breakers from the CHAUVET® website: www.chauvetlighting.com/download/pro.

Always connect this product to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.

Never connect this product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

AC Plug

The Legend™ 330SR Spot comes with a power input cord terminated with a Neutrik® powerCON® A connector on one end and has been left bare-wired on the other end. Use the table below to wire a new plug.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Fuse Replacement

1. Disconnect this product from the power outlet.
2. Using a Phillips-head screwdriver, unscrew the fuse holder cap from the housing.
3. Remove the blown fuse and replace with a another fuse of the same type and rating (T 10 A, 250 V).
4. Screw the fuse holder cap back in place and reconnect power.

Make sure to disconnect the product's power cord before replacing a blown fuse. Always replace the blown fuse with another of the same type and rating.

DMX Linking

You can link the Legend™ 330SR Spot to a DMX controller using a 3- or 5-pin DMX connection. If using other DMX-compatible products with the Legend™ 330SR Spot, you can control each individually with a single DMX controller.

DMX Personalities

The Legend™ 330SR Spot uses a 3- or 5-pin DMX data connection for the 21- and 27-channel DMX personalities.

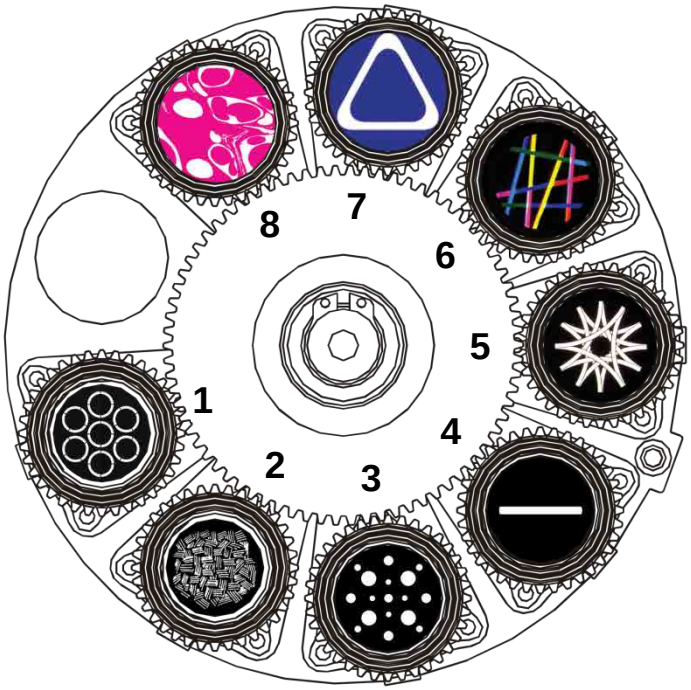
- Refer to the Introduction chapter for a brief description of each DMX personality.
- Refer to the Operation chapter to learn how to configure the Legend™ 330SR Spot to work in these personalities.
- The DMX Values section provides you with detailed information regarding the DMX personalities.

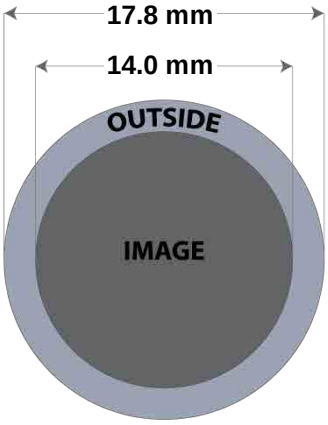
If you are not familiar with or need more information about DMX standards, Master/Slave connectivity, or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the CHAUVET® website: www.chauvetlighting.com/download/pro.

Gobo Wheel

The Legend™ 330SR Spot includes two gobo wheels: 8 rotating gobos plus open on wheel 1 and 14 fixed gobos plus open on wheel 2. The diagram shows the gobo number on the wheel, as numbered in the DMX Values tables.

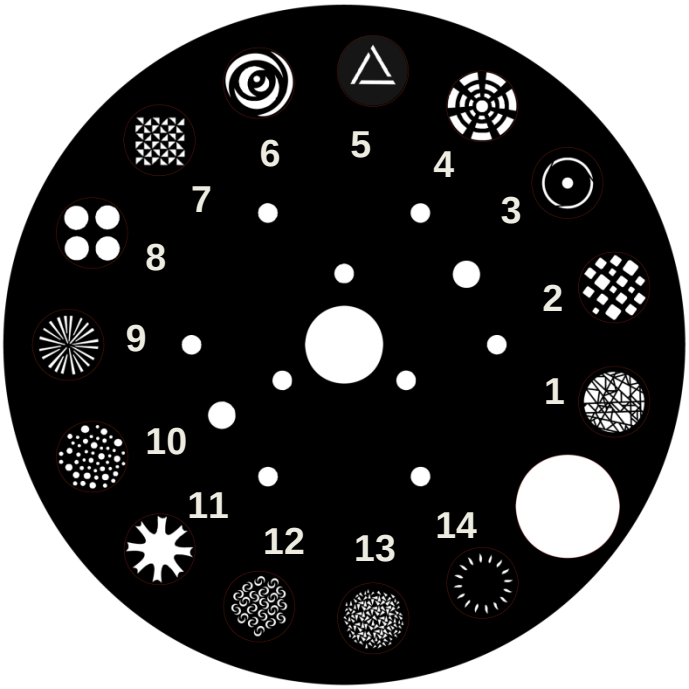
Gobo Wheel 1





Gobo Dimensions
Gobo Wheel 1

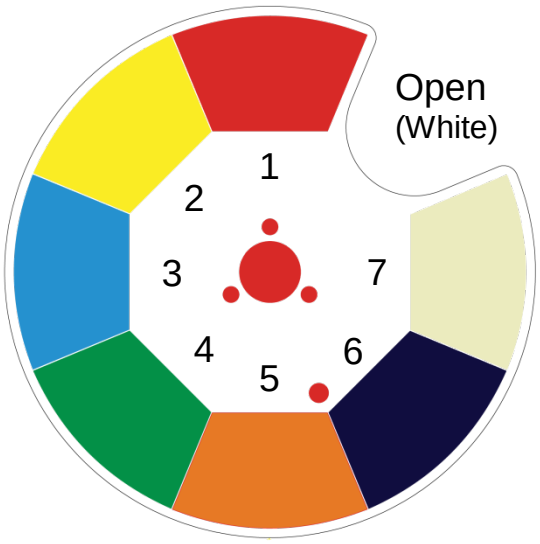
Gobo Wheel 2



The gobos on Gobo Wheel 2 are not removeable.

Color Wheel

The Legend™ 330SR Spot includes one color wheel with 7 fixed colors plus open (white), as indicated below. The diagram shows the color number on the wheel, as numbered in the DMX Values tables.



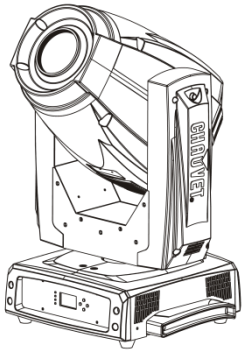
Lamp Replacement

The Legend™ 330SR Spot is equipped with an Osram Sirius 330W X8 lamp. Follow the procedure below to safely change the lamp.

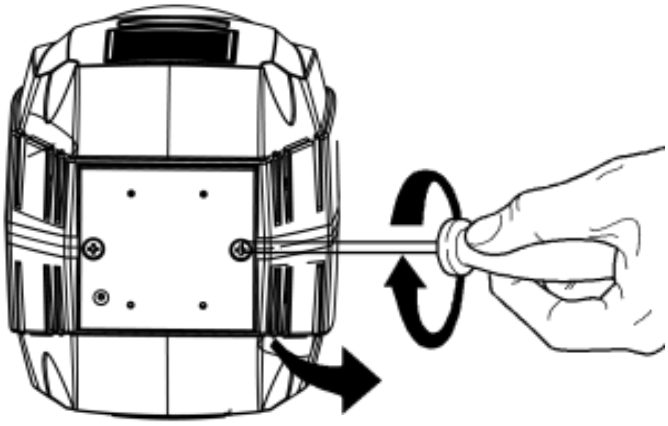
Disconnect the product from power before opening.

Procedure

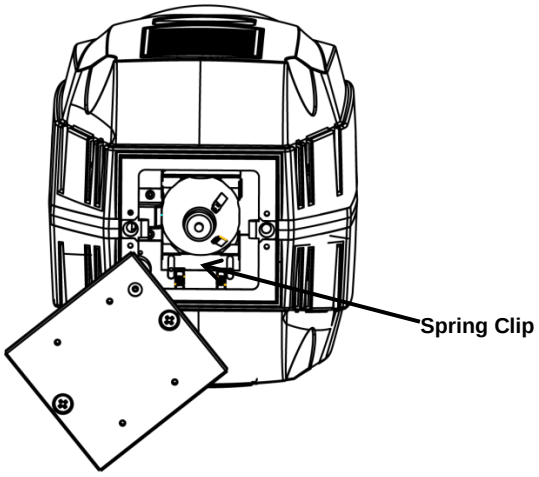
1. Turn the product off and disconnect it from power. Wait at least 15 minutes for the lamp to cool down.



2. Remove back cover using the 2 Phillips-head ¼-turn screws.

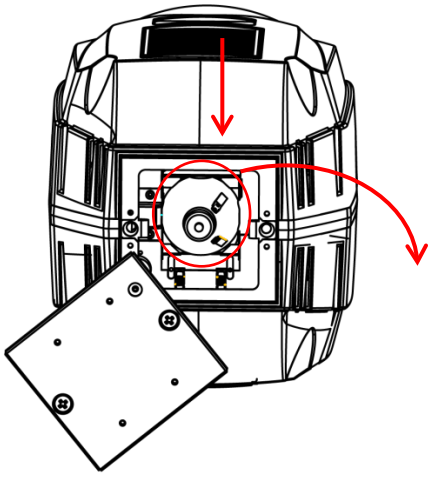


3. Orient the rear of the product so that the spring clip inside is facing downward.

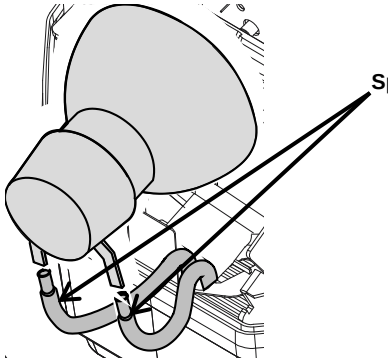


Procedure (Cont.)

4. Using the lamp base, push the lamp down against the spring clips and then roll the lamp out the top.



5. Remove the 2 wires connected to the lamp by the spade terminals.



6. Reverse the steps above to install the new lamp. Do not touch the glass with bare hands.

Do not turn product on without a lamp!

Increasing the Lamp's Life

- **ALWAYS turn the lamp off by using the DMX controller or the product's control panel, then wait at least 5 minutes before switching off the product. This will keep the fans running to extract any remaining heat from the product's head.**
- **DO NOT power cycle the product unless it is necessary.**
- **DO NOT re-strike the lamp immediately after turning it off. CHAUVET® recommends waiting 5 minutes before trying to re-strike the lamp.**
- **DO NOT touch the lamp without wearing gloves to avoid leaving grease on the bulb or on the contacts that could reduce the lamp's life.**
- **ALWAYS change the lamp when it has reached its recommended lifespan to avoid the risk of lamp explosion.**

Mounting

Before mounting this product, read and follow the Safety Notes. For our CHAUVET® line of mounting clamps, go to http://trusst.com/productcategory/base-plates-accessories-clamps/.

Orientation

Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration, and maintenance.

Rigging

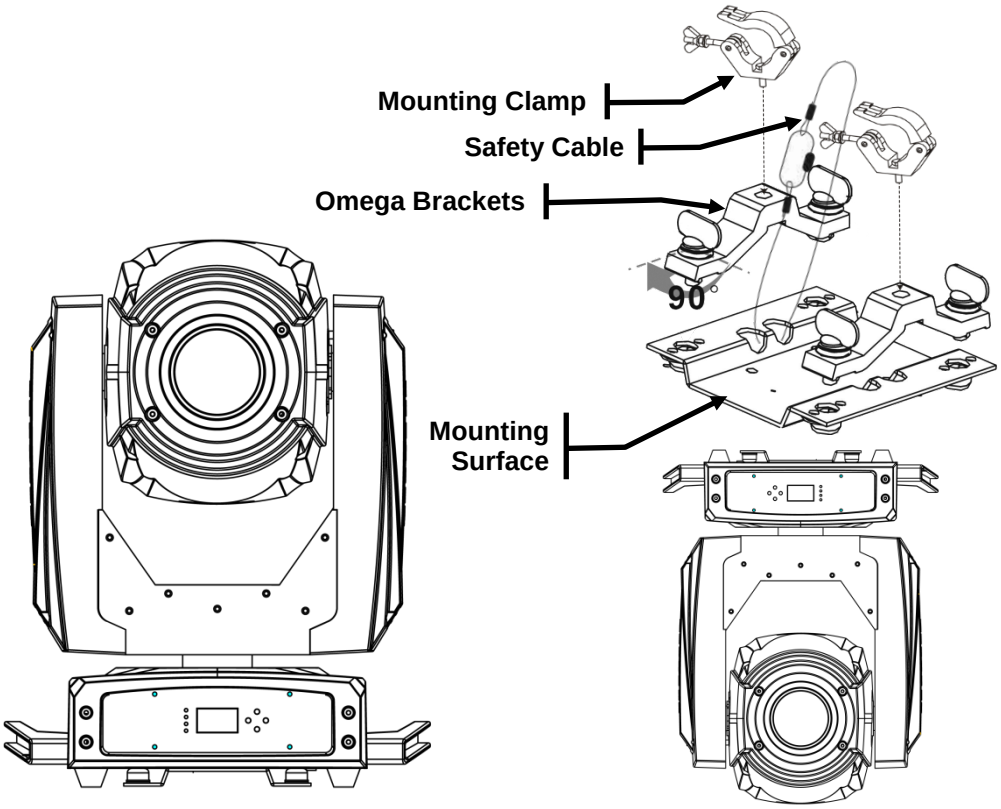
CHAUVET® recommends using the following general guidelines when mounting this product.

- When selecting an installation location, consider easy access to this product for operation, programming adjustments, and routine maintenance.
- Make sure to mount this product away from any flammable material as indicated in the Safety Notes.
- Never mount in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect the product.
- If hanging this product, make sure that the mounting location can support the product's weight. See the Technical Specifications for the weight-bearing requirements of this product.
- When hanging this product, always secure to a fastening device using a safety cable (such as **CH-05** from CHAUVET®).

Procedure

The Legend™ 330SR Spot comes with a preinstalled mounting surface to which you will be able to attach the 2 included omega brackets. Make sure the clamps (such as **CLP-15** from CHAUVET®) are capable of supporting the weight of this product. Use two mounting points per product. In addition, use a safety cable to link the product to the structure.

Mounting Diagram



Floor Mounting **Overhead Mounting**

4. OPERATION

Control Panel Description

Button	Function
<MENU>	Exits from the current menu or function
<ENTER>	Enables the currently displayed menu or sets the currently selected value in to the current function
<UP>	Navigates upward through the menu list or increases the numeric value when in a function
<DOWN>	Navigates downward through the menu list or decreases the numeric value when in a function

LCD Display

The Legend™ 330SR Spot features a backlit liquid crystal display (LCD) that provides information regarding the product's settings and status. In addition, the LCD can be inverted. This allows ease of reading the display whether the product is positioned on the floor or hanging from a truss.
Upon power up, the LCD will show the Legend logo and the product identification. After completing the power up tests, the LCD will show the DMX address, the DMX mode, and the temperature, along with a warning sign if the tests have detected an error.

Press <ENTER> to read the corresponding error message (see Error Messages in the Technical Information section).
To clear the error messages, press <ENTER> while they show on the display.

Control Options

You can set the Legend™ 330SR Spot starting address in the **001**–**512** DMX range. This enables control of up to 18 products in the 27-channel **Mode2** personality.

Programming

Refer to the Menu Map to understand the menu options. The menu map shows the main level and a variable number of programming levels for each option.

- To enter programming mode, press any key on the control panel to wake the opening screen. Press **<MENU>** until you see one of the main level options.
- To highlight a menu option or to change a setting, press **<UP>** or **<DOWN>**.
- To change menu levels as shown in the Menu Map, press **<ENTER>** or **<MENU>**. This is equivalent to moving right and left of the Menu Map, respectively.
- To accept the current or new value, press **<ENTER>**.
- To return to the previous menu without making changes, press **<MENU>**.
- To exit programming mode, press **<MENU>** until you see one of the main level options, the opening screen, or do not press any button for 30 seconds and the screen will automatically revert to the opening screen.

Menu Map

Main Level	Programming Levels		Description
DMX Functions	DMX Address	001–512	Selects a starting DMX address
	DMX Channel Mode	Mode1 (21)	Selects the 21-channel DMX mode
		Mode2 (27)	Selects the 27-channel DMX mode
	View DMX Value		Shows current DMX values for each channel
Fixture Setting	Pan Inverse	No	Defines the direction of the pan function
		Yes	
	Tilt Inverse	No	Defines the direction of the tilt function
		Yes	
	P/T Feedback	No	Defines auto correct function
		Yes	
	Bl.o. P/T Moving	No	Defines the pan/tilt move-in black delay
		Yes	
	Bl.o. Color Change	No	Defines the color change move-in black delay
		Yes	
	Bl.o. Gobo Change	No	Defines the gobo change move-in black delay
		Yes	
Lamp Setting	On/Off	OFF	Turns lamp on/off
		ON	
	State/Power On	OFF	Defines the status of the lamp when powering up the product
		ON	
	Off Via DMX	No	Turns off the unit via DMX controller
		Yes	
	On if DMX On	No	Turns lamp on when DMX signal is detected
		Yes	
	Off if DMX Off	No	Turns lamp off when DMX signal is lost
		Yes	
	Ignition Delay	0S–255S	Selects duration of delay between product power on and lamp power on
	Low Power Delay	0S–255S	Selects the duration of delay when shutter is closed and lamp enters lower power state
Display Setting	Display Inverse	No	Defines the direction of the display
		Yes	
	Backlight Auto Off	No	Display backlight always on
		Yes	Display backlight turns off after 1 minute of control panel inactivity
	Backlight Intensity	1–10	Selects backlight intensity from dim (1) to bright (10)
	Temperature Unit	°C	Defines how temperature is displayed
		°F	

Menu Map (Cont.)

Main Level	Programming Levels			Description
Fixture Test	**Auto Test**			Selects the product's automatic test sequence
	Manual Test			Selects the product's manual test function
Fixture Information	**Fixture Use Time**			Displays total hours of products use
	Lamp On Time		**Exit**	Displays the amount of time the lamp has been on
			Reset Time	Resets lamp timer to 0
	Firmware Version			Displays the firmware version
Reset Functions	**Pan/Tilt**		**No**	Resets pan/tilt function to home position
			Yes	
	Shutter		**No**	Resets shutter function to home position
			Yes	
	Color/CMY		**No**	Resets color wheel/color flags to home position
			Yes	
	Gobo/Iris		**No**	Resets gobo wheel/iris functions to home position
			Yes	
	Zoom/Frost/Focus/ Prism		**No**	Resets zoom/frost/focus/prism functions to home position
			Yes	
	All		**No**	Resets all functions to home position
			Yes	
Special Functions	**Fixture Maintenance**	**Interval**	**10–300 h**	Defines amount of hours between maintenance
		Remain Time	**Exit**	Shows amount of time remaining in maintenance cycle
			Reset Time	Resets maintenance timer
	Factory Setting		**No**	Sets product back to default factory settings
			Yes	

DMX Functions

From the Main Menu, highlight **DMX Functions** and press **<ENTER>** (a new menu with the DMX functions will open).

DMX Address

1. Highlight **DMX Address**.
2. To change the current address, press **<ENTER>**.
   a. Change the starting address (**001–512**).
   b. Accept the new value.

DMX Mode

1. Highlight **DMX Channel Mode**.
2. To change the current mode, press **<ENTER>**.
   a. Select a DMX mode (**Mode1**/**Mode2**).
   b. Accept the selected option.

View DMX Values

1. Highlight **View DMX Value**.
2. Press **<ENTER>**.
   a. Scroll along the list to see the values of all the current attributes.
   b. Return to the previous menu.

The list will show either 21 or 27 attributes, depending on the current DMX mode.

Product Settings

From the Main Menu, highlight **Fixture Settings** and press **<ENTER>**.

Reverse Pan Direction

1. Highlight **Pan Inverse**.
2. To reverse the pan direction, press **<ENTER>**.
   a. Select **YES** to reverse the pan direction or **NO** to use the normal pan direction.
   b. Accept the selected option.

Reverse Tilt Direction

1. Highlight **Tilt Inverse**.
2. To reverse the tilt direction, press **<ENTER>**.
   a. Select **YES** to reverse the tilt direction or **NO** to use the normal tilt direction.
   b. Accept the selected option.

P/T Feedback

1. Highlight **P/T Feedback**.
2. To select whether the product will auto correct itself when pan/ tilt is knocked out of position, press **<ENTER>**.
   a. Select **YES** to turn on the auto correct or **NO** to turn off the auto correct.
   b. Accept the selected option.

Head Motion Blackout

1. Highlight **Bl.o P/T Moving**.
2. To black out the output when the head moves, press **<ENTER>**.
   a. Select **YES** to black out the output when the head tilts or pans, or **NO** to keep the output on while the head moves.
   b. Accept the selected option.

Color Change Blackout

1. Highlight **Bl.o Color Change**.
2. To black out the output when the color wheel changes, press **<ENTER>**.
   a. Select **YES** to black out the output during a color change or **NO** to keep the output on to see the color changing.
   b. Accept the selected option.

Gobo Change Blackout

1. Highlight **Bl.o Gobo Change**.
2. To black out the output when the gobo wheel changes, press **<ENTER>**.
   a. Select **YES** to black out the output during a gobo change or **NO** to keep the output on to see the gobo changing.
   b. Accept the selected option.

Lamp Settings From the Main Menu, highlight **Lamp Settings** and press **<ENTER>**.

The lamp will not turn on if the ambient temperature is 104 ºF (40 ºC) or higher.

Lamp On/Off
1. Highlight **On/Off**.
2. To turn the lamp on or off, press **<ENTER>**.
   a. Select **ON** to turn the lamp on or **OFF** to turn the lamp off.
   b. Accept the selected option.

Lamp Status During Power On
1. Highlight **State/Power On**.
2. To change the lamp status during power on, press **<ENTER>**.
   a. Select **ON** to turn on the product and the lamp simultaneously or **OFF** to turn on the product without turning on the lamp.
   b. Accept the selected option.

Remote Turn Off
1. Highlight **Off Via DMX**.
2. To enable/disable remote turn off, press **<ENTER>**.
   a. Select **YES** to enable product turn off from either a DMX controller or its power switch, or **NO** to turn the product off only from its power switch.
   b. Accept the selected option.

Lamp On if DMX Present
1. Highlight **On if DMX On**.
2. To turn the lamp on when DMX is present, press **<ENTER>**.
   a. Select **YES** to turn the lamp on if DMX signal is present, or **NO** to turn the lamp on only from the control panel.
   b. Accept the selected option.

Lamp Off if DMX Absent
1. Highlight **Off if DMX Off**.
2. To turn the lamp off when DMX is absent, press **<ENTER>**.
   a. Select **YES** to turn the lamp off if DMX signal is absent, or **NO** to turn the lamp off only from the control panel.
   b. Accept the selected option.

Lamp Strike Delay
1. Highlight **Ignition Delay**.
2. To set the lamp strike delay, press **<ENTER>**.
   a. Select the delay before the lamp strikes after power up in seconds (**0S–255S**).
   b. Accept the new value.

Fixture Shut Off Delay
1. Highlight **Low Power Delay**.
2. To set the lamp shut off delay, press **<ENTER>**.
   a. Select the delay before the product powers off after lamp off in seconds (**0S–255S**).
   b. Accept the new value.

Display Settings

From the Main Menu, highlight **Display Settings** and press **<ENTER>**.

Overturn Display

1. Highlight **Display Inverse**.
2. To overturn the display, press **<ENTER>**.
   a. Select **YES** to turn the LCD around or **NO** to keep the normal LCD view.
   b. Accept the selected option.

LCD Backlight Off

1. Highlight **Backlight Auto Off**.
2. To configure the LCD backlight, press **<ENTER>**.
   a. Select **YES** to automatically turn the LCD backlight off after 1 minute or **NO** to keep the LCD backlight always on.
   b. Accept the selected option.

Backlight Brightness

1. Highlight **Backlight Intensity**.
2. To set the backlight brightness, press **<ENTER>**.
   a. Select the backlight brightness (**1–10**), **1** being the darkest and **10** the brightest.
   b. Accept the new value.

Temperature Unit

1. Highlight **Temperature Unit**.
2. To select the temperature unit, press **<ENTER>**.
   a. Select **ºC** to show the temperature in the Celsius scale or **ºF** to show the temperature in the Fahrenheit scale.
   b. Accept the selected option.

Fixture Tests

From the Main Menu, highlight **Display Settings** and press **<ENTER>**.

Automatic Fixture Test

1. Highlight **Auto Test**.
2. To start the built-in test sequence, press **<ENTER>**.

The automatic fixture test will end after 1 full cycle. You can stop the test by pressing <MENU>.

Manual Fixture Test

1. Highlight **Manual Test** and press **<ENTER>**.
2. Highlight the desired attribute.
3. To change the value of the selected attribute, press **<ENTER>**.
   a. Set the attribute value (**000–255**).
   b. Accept the new value.
4. Repeat steps 2 and 3 for the other attributes.
5. When done with the test, exit to the previous menu (the values of all tested channels will go back to zero).

Fixture Information

From the Main Menu, highlight **Fixture Information** and press **<ENTER>**.

Fixture Operation Timer

· Highlight **Fixture Use Time** (the accumulated product's operation time will show).

You cannot modify or reset the fixture operation timer.

Lamp Operation Timer

1. Highlight **Lamp On Time** (the accumulated lamp's operation time will show).
2. To reset the lamp operation timer, press **<ENTER>.**
   a. Select **Reset Time** to reset the timer or **Exit** to exit without resetting.
   b. Accept the selected option.

Firmware Version

1. Highlight **Firmware Version**.
2. To see the firmware versions installed, press **<ENTER>**.
   a. The display will show the current firmware version for each of the four CPU boards (A through D) in the product.
   b. Return to the previous menu.

Reset Functions

From the Main Menu, highlight **Reset** and press **<ENTER>**.

You can leave this sub-menu at any time by pressing <MENU> or selecting NO.

Pan/Tilt Reset · Highlight **Pan/Tilt** and press **<ENTER>**.
a. Select **YES** to reset the pan and tilt movements to their home positions.
b. Accept the selected option.

Shutter Reset · Highlight **Shutter** and press **<ENTER>**.
a. Select **YES** to reset the shutter to the home position.
b. Accept the selected option.

Color/CMY Reset · Highlight **Color/CMY** and press **<ENTER>**.
a. Select **YES** to reset the color wheel and the CMY filters to their home positions.
b. Accept the selected option.

Gobo/Iris Reset · Highlight **Gobo/Iris** and press **<ENTER>**.
a. Select **YES** to reset the gobo wheels and Iris to their home positions.
b. Accept the selected option.

Zoom/Frost/Focus/Prism Reset · Highlight **Zoom/Frost/Focus/Prism** and press **<ENTER>**.
a. Select **YES** to reset the zoom, focus, prism, and frost to their home positions.
b. Accept the selected option.

Reset All · Highlight **All** and press **<ENTER>**.
a. Select **YES** to reset all moving optical parts and the moving head to their home positions.
b. Accept the selected option.

Special Functions

From the Main Menu, highlight **Special Functions** and press **<ENTER>**.

Fixture Maintenance Timers

1. Highlight **Fixture Maintenance** and press **<ENTER>** (the current maintenance interval and remaining time will show).
2. To change the maintenance interval timer, highlight **Interval** and press **<ENTER>**.
   a. Select the new interval **10–300 h** (in hours).
   b. Accept the new value.
3. To reset the counter for the remaining time, highlight **Remain Time** and press **<ENTER>**.
   a. Select **Reset Time** to reset the timer or **Exit** to exit without resetting it.
   b. Accept the selected option.

It is a good idea to use the Fixture Maintenance timer as a reminder to change the lamp.

Fixture Defaulting

- Highlight **Factory Setting** and press **<ENTER>**.
  a. Select **YES** to reset the product to factory default setting or **NO** to exit without resetting.

Offset Mode

The Offset mode provides fine adjustments for the home position of all the moving parts in the optical path as well as the pan and tilt movements. This way, when in their home position, the moving parts do not show any border or reduce the light output.

Entering Offset Mode

1. Press **<MENU>** to enter the regular Menu mode.
2. Press **<ENTER>** for more than 3 seconds to enter the Offset mode (the Offset mode menu will show).

Pan ·
Select **Pan** and press **<ENTER>**.
a. Select the new value (**-128–127**).
b. Accept the new value.

Tilt ·
Select **Tilt** and press **<ENTER>**.
a. Select the new value (**-128–127**).
b. Accept the new value.

Shutter ·
Select **Shutter** and press **<ENTER>**.
a. Select the new value (**000–255**).
b. Accept the new value.

Color ·
Select **Color** and press **<ENTER>**.
a. Select the new value (**-128–127**).
b. Accept the new value.

Cyan ·
Select **Cyan** and press **<ENTER>**.
a. Select the new value (**000–255**).
b. Accept the new value.

Magenta ·
Select **Magenta** and press **<ENTER>**.
a. Select the new value (**000–255**).
b. Accept the new value.

Yellow ·
Select **Yellow** and press **<ENTER>**.
a. Select the new value (**000–255**).
b. Accept the new value.

- **Gobo** · Select **Gobo** and press **<ENTER>**.
  a. Select the new value (**-128–127**).
  b. Accept the new value.
- **R-Gobo** · Select **R-Gobo** and press **<ENTER>**.
  a. Select the new value (**-128–127**).
  b. Accept the new value.
- **Gobo 2** · Select **Gobo 2** and press **<ENTER>**.
  a. Select the new value (**-128–127**).
  b. Accept the new value.
- **Iris** · Select **Iris** and press **<ENTER>**.
  a. Select the new value (**000–255**).
  b. Accept the new value.
- **Prism** · Select **Prism** and press **<ENTER>**.
  a. Select the new value (**000–255**).
  b. Accept the new value.
- **R-Prism** · Select **R-Prism** and press **<ENTER>**.
  a. Select the new value (**-128–127**).
  b. Accept the new value.
- **Zoom** · Select **Zoom** and press **<ENTER>**.
  a. Select the new value (**000–255**).
  b. Accept the new value.
- **Focus** · Select **Focus** and press **<ENTER>**.
  a. Select the new value (**000–255**).
  b. Accept the new value.
- **Frost** · Select **Frost** and press **<ENTER>**.
  a. Select the new value (**000–255**).
  b. Accept the new value.

DMX Values

Mode1 (21)

Channel	Function	Value	Percent/Setting
1	**Pan**	000 ó 255	0–100%
2	**Fine Pan**	000 ó 255	0–100%
3	**Tilt**	000 ó 255	0–100%
4	**Fine Tilt**	000 ó 255	0–100%
5	**Pan/Tilt Speed**	000 ó 255	Fast to slow
6	**Dimmer**	000 ó 255	0–100%
7	**Shutter**	000 ó 007 008 ó 015 016 ó 131 132 ó 167 168 ó 203 204 ó 239 240 ó 247 248 ó 255	No function Open Slow to fast (strobe) Fast close/slow open Slow close/fast open Slow to fast (pulse effect) Random strobe Open
8	**Color Wheel**	000 ó 007 008 ó 015 016 ó 023 024 ó 031 032 ó 039 040 ó 047 048 ó 055 056 ó 063 064 ó 127 128 ó 189 190 ó 193 194 ó 255	Open Color 1 Color 2 Color 3 Color 4 Color 5 Color 6 Color 7 Index/split color Clockwise rotation, fast to slow Stop Counter-clockwise rotation, slow to fast
9	**Cyan**	000 ó 255	0–100%
10	**Magenta**	000 ó 255	0–100%
11	**Yellow**	000 ó 255	0–100%
12	**Gobo Wheel 1**	000 ó 007 008 ó 014 015 ó 021 022 ó 028 029 ó 035 036 ó 042 043 ó 049 050 ó 056 057 ó 063 064 ó 127 128 ó 189 190 ó 193 194 ó 255	Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 1–8 bounce Clockwise rotation, fast to slow Stop Counter-clockwise rotation, slow to fast

DMX Values (Cont.)

Mode1 (21) (cont.)

Channel	Function	Value	Percent/Setting
13	**Gobo Wheel 1 Rotate**	000 ó 127	Index/split gobo
		128 ó 189	Clockwise rotation, fast to slow
		190 ó 193	Stop
		194 ó 255	Counter-clockwise rotation, slow to fast
14	**Gobo Wheel 2**	000 ó 004	Open
		005 ó 009	Gobo 1
		010 ó 014	Gobo 2
		015 ó 018	Gobo 3
		019 ó 023	Gobo 4
		024 ó 028	Gobo 5
		029 ó 033	Gobo 6
		034 ó 037	Gobo 7
		038 ó 042	Gobo 8
		043 ó 047	Gobo 9
		048 ó 052	Gobo 10
		053 ó 056	Gobo 11
		057 ó 061	Gobo 12
		062 ó 066	Gobo 13
		067 ó 071	Gobo 14
		072 ó 127	Gobo 1–14 bounce
		128 ó 189	Clockwise rotation, fast to slow
		190 ó 193	Stop
		194 ó 255	Counter-clockwise rotation, slow to fast
15	**Focus**	000 ó 255	0–100%
16	**Zoom**	000 ó 255	0–100%
17	**Prism Wheel**	000 ó 007	No function
		008 ó 127	Prism insert
		128 ó 191	Effect 1
		192 ó 255	Effect 2
18	**Prism Rotation**	000 ó 127	Index
		128 ó 190	Clockwise rotation, fast to slow
		191 ó 192	Stop
		193 ó 255	Counter-clockwise rotation, slow to fast
19	**Iris**	000 ó 063	Wide to narrow
		064 ó 127	Iris effect, slow to fast
		128 ó 191	Iris effect, out slow, in fast
		192 ó 255	Iris effect, in slow, out fast
20	**Frost**	000 ó 255	0–100%

DMX Values (cont.)

Mode1 (21) (cont.)

Channel	Function	Value	Percent/Setting
21	Control	000 ó 069	No function
		070 ó 079	Pan/tilt blackout mode enabled
		080 ó 089	Pan/tilt blackout mode disabled
		090 ó 099	Color wheel change blackout mode enabled
		100 ó 109	Color wheel change blackout mode disabled
		110 ó 119	Gobo change blackout mode enabled
		120 ó 129	Gobo change blackout mode disabled
		130 ó 139	Lamp on
		140 ó 149	Pan/tilt reset
		150 ó 159	Color/CMY reset
		160 ó 169	Gobo/iris reset
		170 ó 179	Shutter/dimmer reset
		180 ó 189	No function
		190 ó 199	Frost/focus reset
		200 ó 209	Reset all
		210 ó 219	Color, gobo, pan/tilt change blackout mode enabled
		220 ó 229	Color, gobo, pan/tilt change blackout mode disabled
		230 ó 239	Lamp off
		240 ó 255	No function

DMX Values (cont.)

Mode2 (27)

Channel	Function	Value	Percent/Setting
1	**Pan**	000 ó 255	0–100%
2	**Fine Pan**	000 ó 255	0–100%
3	**Tilt**	000 ó 255	0–100%
4	**Fine Tilt**	000 ó 255	0–100%
5	**Pan/Tilt Speed**	000 ó 255	Fast to slow
6	**Dimmer**	000 ó 255	0–100%
7	**Fine Dimmer**	000 ó 255	0–100%
8	**Shutter**	000 ó 007 008 ó 015 016 ó 131 132 ó 167 168 ó 203 204 ó 239 240 ó 247 248 ó 255	No function Open Slow to fast (strobe) Fast close/slow open Slow close/fast open Slow to fast (pulse effect) Random strobe Open
9	**Color Wheel**	000 ó 007 008 ó 015 016 ó 023 024 ó 031 032 ó 039 040 ó 047 048 ó 055 056 ó 063 064 ó 127 128 ó 189 190 ó 193 194 ó 255	Open Color 1 Color 2 Color 3 Color 4 Color 5 Color 6 Color 7 Index/split color Clockwise rotation, fast to slow Stop Counter-clockwise rotation, slow to fast
10	**Cyan**	000 ó 255	0–100%
11	**Magenta**	000 ó 255	0–100%
12	**Yellow**	000 ó 255	0–100%
13	**CMY Speed**	000 ó 254 255	Fast to slow Fast

DMX Values (cont.)

Mode2 (27) (cont.)

Channel	Function	Value	Percent/Setting
14	**Gobo Wheel 1**	000 ó 007	Open
		008 ó 014	Gobo 1
		015 ó 021	Gobo 2
		022 ó 028	Gobo 3
		029 ó 035	Gobo 4
		036 ó 042	Gobo 5
		043 ó 049	Gobo 6
		050 ó 056	Gobo 7
		057 ó 063	Gobo 8
		064 ó 127	Gobo 1–8 bounce
		128 ó 189	Clockwise rotation, fast to slow
		190 ó 193	Stop
		194 ó 255	Counter-clockwise rotation, slow to fast
15	**Gobo Wheel 1 Rotate**	000 ó 127	Index/split gobo
		128 ó 189	Clockwise rotation, fast to slow
		190 ó 193	Stop
		194 ó 255	Counter-clockwise rotation, slow to fast
16	**Gobo Wheel 2**	000 ó 004	Open
		005 ó 009	Gobo 1
		010 ó 014	Gobo 2
		015 ó 018	Gobo 3
		019 ó 023	Gobo 4
		024 ó 028	Gobo 5
		029 ó 033	Gobo 6
		034 ó 037	Gobo 7
		038 ó 042	Gobo 8
		043 ó 047	Gobo 9
		048 ó 052	Gobo 10
		053 ó 056	Gobo 11
		057 ó 061	Gobo 12
		062 ó 066	Gobo 13
		067 ó 071	Gobo 14
		072 ó 127	Gobo 1–14 bounce
		128 ó 189	Clockwise rotation, fast to slow
		190 ó 193	Stop
		194 ó 255	Counter-clockwise rotation, slow to fast
17	**Focus**	000 ó 255	0–100%
18	**Zoom**	000 ó 255	0–100%
19	**Prism Wheel**	000 ó 007	No function
		008 ó 127	Prism insert
		128 ó 191	Effect 1
		192 ó 255	Effect 2
20	**Prism Rotation**	000 ó 127	Index
		128 ó 190	Clockwise rotation, fast to slow
		191 ó 192	Stop
		193 ó 255	Counter-clockwise rotation, slow to fast
21	**Iris**	000 ó 063	Wide to narrow
		064 ó 127	Iris effect, slow to fast
		128 ó 191	Iris effect, out slow, in fast
		192 ó 255	Iris effect, in slow, out fast

DMX Values (cont.)

Mode2 (27) (cont.)

Channel	Function	Value	Percent/Setting
22	**Frost**	000 ó 255	0–100%
23	**Pan/Tilt Macro**	000 ó 007	No function
		008 ó 015	Macro 1
		016 ó 023	Macro 2
		024 ó 031	Macro 3
		032 ó 039	Macro 4
		040 ó 047	Macro 5
		048 ó 055	Macro 6
		056 ó 063	Macro 7
		064 ó 071	Macro 8
		072 ó 079	Macro 9
		080 ó 087	Macro 10
		088 ó 095	Macro 11
		096 ó 103	Macro 12
		104 ó 111	Macro 13
		112 ó 119	Macro 14
		120 ó 127	Macro 15
		128 ó 135	Macro 16
		136 ó 143	Macro 17
		144 ó 151	Macro 18
		152 ó 159	Macro 19
		160 ó 167	Macro 20
		168 ó 175	Macro 21
		176 ó 183	Macro 22
		184 ó 191	Macro 23
		192 ó 199	Macro 24
		200 ó 207	Macro 25
		208 ó 215	Macro 26
		216 ó 223	Macro 27
		224 ó 231	Macro 28
		232 ó 239	Macro 29
		240 ó 247	Macro 30
		248 ó 255	Macro 31
24	**Pan/Tilt Macro Speed**	000 ó 255	0–100%
25	**Preset Color**	000 ó 021	No function
		022 ó 042	Color 1
		043 ó 063	Color 2
		064 ó 085	Color 3
		086 ó 106	Color 4
		107 ó 127	Color 5
		128 ó 148	Color 6
		149 ó 170	Color 7
		171 ó 191	Color 8
		192 ó 212	Color 9
		213 ó 233	Color 10
		234 ó 255	Color 11

DMX Values (cont.)

Mode2 (27) (cont.)

Channel	Function	Value	Percent/Setting
26	**Color Macro**	000 ó 007	No function
		008 ó 028	Color Macro 1
		029 ó 049	Color Macro 2
		050 ó 069	Color Macro 3
		070 ó 090	Color Macro 4
		091 ó 110	Color Macro 5
		111 ó 131	Color Macro 6
		132 ó 152	Color Macro 7
		153 ó 173	Color Macro 8
		174 ó 193	Color Macro 9
		194 ó 213	Color Macro 10
		214 ó 234	Color Macro 11
		235 ó 255	Color Macro 12
27	**Control**	000 ó 069	No function
		070 ó 079	Pan/tilt blackout mode enabled
		080 ó 089	Pan/tilt blackout mode disabled
		090 ó 099	Color wheel change blackout mode enabled
		100 ó 109	Color wheel change blackout mode disabled
		110 ó 119	Gobo change blackout mode enabled
		120 ó 129	Gobo change blackout mode disabled
		130 ó 139	Lamp on
		140 ó 149	Pan/tilt reset
		150 ó 159	Color/CMY reset
		160 ó 169	Gobo/iris reset
		170 ó 179	Shutter/dimmer reset
		180 ó 189	No function
		190 ó 199	Frost/focus reset
		200 ó 209	Reset all
		210 ó 219	Color, gobo, pan/tilt change blackout mode enabled
		220 ó 229	Color, gobo, pan/tilt change blackout mode disabled
		230 ó 239	Lamp off
		240 ó 255	No function

5. TECHNICAL INFORMATION

Product Maintenance

To maintain optimum performance and minimize wear, you should clean this product frequently. Usage and environment are contributing factors in determining the cleaning frequency.

As a rule, clean this product at least twice a month. Dust build-up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

To clean your product:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents.
4. Clean all external surfaces with a mild solution of non-ammonia glass cleaner or isopropyl alcohol.
5. Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
6. Wipe any dirt or grime to the outside edges of the lens surface.
7. Gently polish the lens surfaces until they are free of haze and lint.

Always dry the external surfaces thoroughly and carefully after cleaning them.

Do not spin the cooling fans while blowing compressed air into them.

Error Messages

Message	Cause(s)	Action(s)
Lamp Startup Fail	The lamp has not started after being struck	· Check lamp · Check lamp socket and wiring · Send product for repair
Temperature Sense Error	No communication with temperature sensor	· Check sensor wiring · Check sensor integrity · Send product for repair
Lamp Too Hot Low Power	Ambient temperature higher than 104 °C; lamp in low power for safety	· Check fans · Check fan wiring · Clean vents
Lamp Too Hot Power Off	Ambient temperature higher than 110 °C; lamp off for safety	· Check fans · Check fan wiring · Clean vents
Maintenance Fixture	Fixture Maintenance timer expired	· Proceed with maintenance and reset timer
Memory Initial Fail	Memory chip error	· Send product for repair
CPU-B Error **CPU-C Error** **CPU-D Error**	No communication with auxiliary CPU	· Check sensor's wiring and position · Send product for repair
Pan Reset Error **Pan Encode Error** **Tilt Reset Error** **Tilt Encode Error**	Moving head failed to go to home position after power up or fixture reset	· Check moving head's free movement · Check sensors' wiring and position · Send product for repair
Dimmer Reset Fail **Color Reset Fail** **Gobo Reset Fail** **Focus Reset Fail** **Zoom Reset Fail** **Frost Reset Fail**	Indicated moving part failed to go to its home position after power up or fixture reset	· Check part's free movement and integrity · Check sensors' wiring and position · Send product for repair

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight

Length	Width	Height	Weight
13.5 in (344 mm)	17.1 in (435 mm)	25.5 in (649 mm)	47 lb (21.3 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Power

Power Supply Type	Range	Voltage Selection
Switching (internal)	100–240 VAC, 50/60 Hz	Auto-ranging

Parameter	120 VAC, 60 Hz	230 VAC, 50 Hz
Consumption	514 W	495 W
Current	4.3 A	2.3 A
Fuse	T 10 A, 250 V	T 10 A, 250 V

Power I/O	U.S./Canada	Worldwide
Power input connector	Neutrik® powerCON® A	Neutrik® powerCON® A
Power cord plug	Bare-wired	Bare-wired

Light Source

Type	Power	Lifespan
HRI	330 W	1,500 hours

Gobo Dimensions

Gobo Wheel 1 Outside Diameter	Image Diameter	Max. Thickness
17.8 mm	14.0 mm	1.3 mm

Photo Optic

Parameter	Standard Optics
Illuminance @ 5 m	62,200 lux (5°)
Illuminance @ 5 m	4,110 lux (24°)
Beam angle	5°–24°

Thermal

Max. External Temperature	Cooling System
113 °F (45 °C)	Fan-Cooled

DMX

I/O Connectors	Connector Type	Channel Range
3- and 5-pin XLR	Sockets	21 or 27

Ordering

Product Name	Item Code	UPC Number
Legend™ 330SR Spot	06010805	781462211530
Legend™ 330SR Spot (2-pack in flight case)	06010897	781462212452

Returns

You must send the product prepaid, in the original box, and with the original packing and accessories. CHAUVET® will not issue call tags.
Call CHAUVET® and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause(s) for the return.
Clearly label the package with an RMA number. CHAUVET® will refuse any product returned without an RMA number.

DO NOT write the RMA number directly on the box. Instead, write it on a properly affixed label.

Once you have received the RMA number, include the following information on a piece of paper inside the box:

- Your name
- Your address
- Your phone number
- The RMA number
- A brief description of the problem(s)

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. FedEx packing or double-boxing is recommended.

CHAUVET® reserves the right to use its own discretion to repair or replace returned product(s).

CONTACT US

WORLD HEADQUARTERS - CHAUVET®

General Information
Address: 5200 NW 108th Avenue
Sunrise, FL 33351
Voice: (954) 577-4455
Fax: (954) 929-5560
Toll free: (800) 762-1084

Technical Support
Voice: (954) 577-4455 (Press **4**)
Fax: (954) 756-8015
Email: tech@chauvetlighting.com

World Wide Web
www.chauvetlighting.com

UNITED KINGDOM AND IRELAND - CHAUVET® Europe Ltd.

General Information
Address: Unit 1C
Brookhill Road Industrial Estate
Pinxton, Nottingham, UK
NG16 6NT
Voice: +44 (0)1773 511115
Fax: +44 (0)1773 511110

Technical Support
Email: uktech@chauvetlighting.com

World Wide Web
www.chauvetlighting.co.uk

MEXICO - CHAUVET® Mexico

General Information
Address: Av. Santa Ana 30
Parque Industrial Lerma
Lerma, Mexico C.P. 52000
Voice: +52 (728) 285-5000

Technical Support
Email: servicio@chauvet.com.mx

World Wide Web
www.chauvet.com.mx

Outside the U.S., United Kingdom, Ireland, or Mexico, contact your dealer. Follow their instructions to request support or to return a product. Visit our website for contact details.